

**PEAVEY®**  
ARCHITECTURAL ACOUSTICS®

# PR™ 600

## Two-Way Sound System

### SPECIFICATIONS

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**Enclosure:**  
PR™ 600

**Frequency Response, 1 Meter on Axis,  
Swept Sine Averaged Across Operating  
Bandwidth in Anechoic Environment:**  
100 Hz-20 kHz +/- 3 dB

**Low Frequency Limit (-3 dB point):**  
100 Hz

**Usable Low Frequency Limit (-10 dB point):**  
80 Hz

**Power Handling:**  
80 watts continuous (20 volts RMS)  
160 watts program

**Sound Pressure Level, 1 Watt at 1 Meter,  
Swept Sine Input in Anechoic Environment:**  
91 dB

**Maximum Sound Pressure Level:**  
110 dB

**Radiation Angle Measured at -6 dB Point of  
Polar Response, Swept Sine Input:**

Horizontal Plane:	Vertical Plane:
250-500 Hz	250-500 Hz
200° +/- 20°	240° +/- 30°
500-10,000 Hz	500-10,000 Hz
120° +/- 55°	130° +/- 50°
10,000-16,000 Hz	10,000-16,000 Hz
70° +/- 10°	70° +/- 10°

**Directivity Factor Q, 500 Hz —16,000 Hz  
Median:**  
4.4 (+4.5, -3.1)

**Directivity Index Di, 500—16,000 Hz Median:**

6.4 dB (+3.2 dB, -5.3 dB)

**Transducer Complement:**

1-6" woofer  
1-3/4" conical tweeter

**Box Tuning Frequency:**

95 Hz

**Crossover Frequency:**

3500 Hz

**Crossover Type:**

Two-way passive

**Crossover Slope:**

12 dB/octave (2nd order) low pass  
12 dB/octave (2nd order) high pass

**Impedance (Nominal):**

8 ohms

**Impedance (Minimal):**

8 ohms

**Input Connections:**

2 slide terminals

**Enclosure Materials and Finish:**

Black polypropylene

**Mounting:**

Flying via four threaded inserts  
compatible with Omnimount series 75  
hardware

**Dimensions:**

7 1/8" W x 11 1/2" H x 6 1/8" D

**Net Weight:**

7 lbs (3.2 kg)

#### DESCRIPTION

The PR™ 600 combines the best in sound quality and usability in an attractive, versatile package. The 8 ohm enclosure features a specially designed 6" woofer and a conical tweeter which are protected by a sturdy metal grille. The two speaker components combine to produce a frequency response of 100 Hz to 20 kHz and a sensitivity of 91 dB at 1 watt, 1 meter. The trapezoidal enclosures are constructed of durable black polypropylene and are easily painted for custom installations. The sides of the PR 600 are specially slotted with a unique patent pending design so that adjacent enclosures will interlock easily with one another. In addition, the PR 600 comes with four threaded inserts, which make the enclosure compatible with Omnimount Series 75 hardware.

## DIRECTIVITY

This specification serves as a reference to describe the coverage characteristics of an enclosure. Directivity parameters provide insight for proper speaker placement and installation in a chosen environment. The PR™ 600 exhibits nominal  $70^\circ \times 70^\circ$  coverage over the entire frequency band.

## FREQUENCY RESPONSE

The measurement is useful in determining how accurately a given enclosure reproduces an input signal. The frequency response of the PR™ 600 is measured at 1 meter using a 2.82 volt swept sine input. As shown in Figure 1, the selected drivers in the PR 600 combine to give a smooth frequency response from 100—20,000 Hz.

## POWER HANDLING

There are many different approaches to power handling ratings, the most common being EIA standard RS-426A. The derived shape of this test spectrum was an attempt to simulate the spectral content of contemporary music. Although it does resemble contemporary music, EIA-RS-426A does not contain the same levels of very low frequency material found in live music situations. Very high levels of low frequency material produce distortion and, ultimately, device failure. The presence of the low frequency material will therefore yield lower device ratings than produced by EIA standard RS-426A.

Although the Peavey ratings are lower than those produced by the EIA test spectrum, they are far more reliable and will have a direct correlation to real world situations.

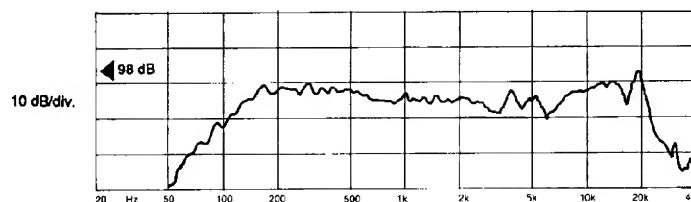


Figure 1. FREQUENCY RESPONSE

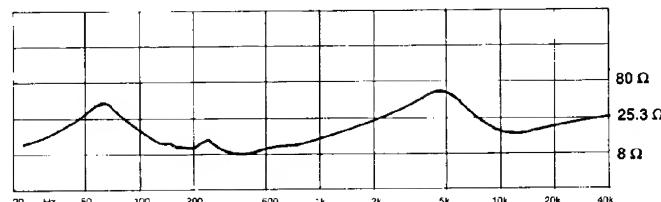


Figure 2. IMPEDANCE

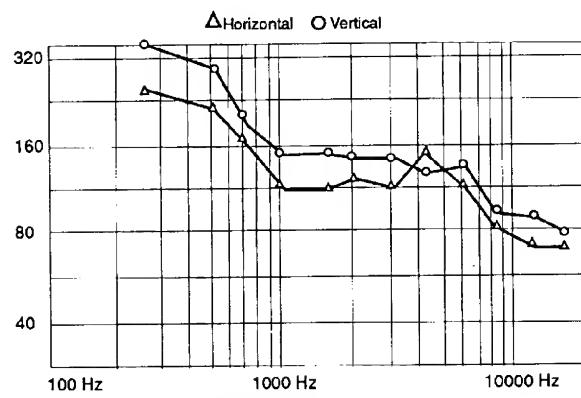


Figure 3. BEAMWIDTH VS. FREQUENCY

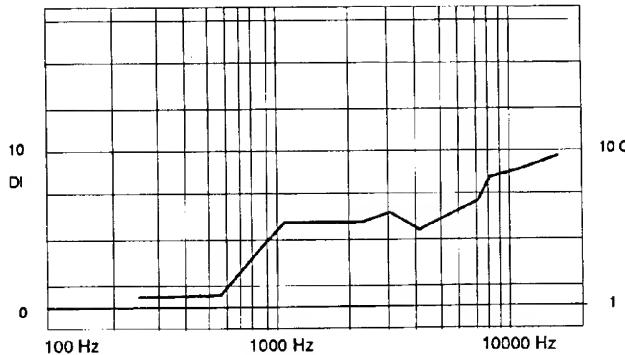
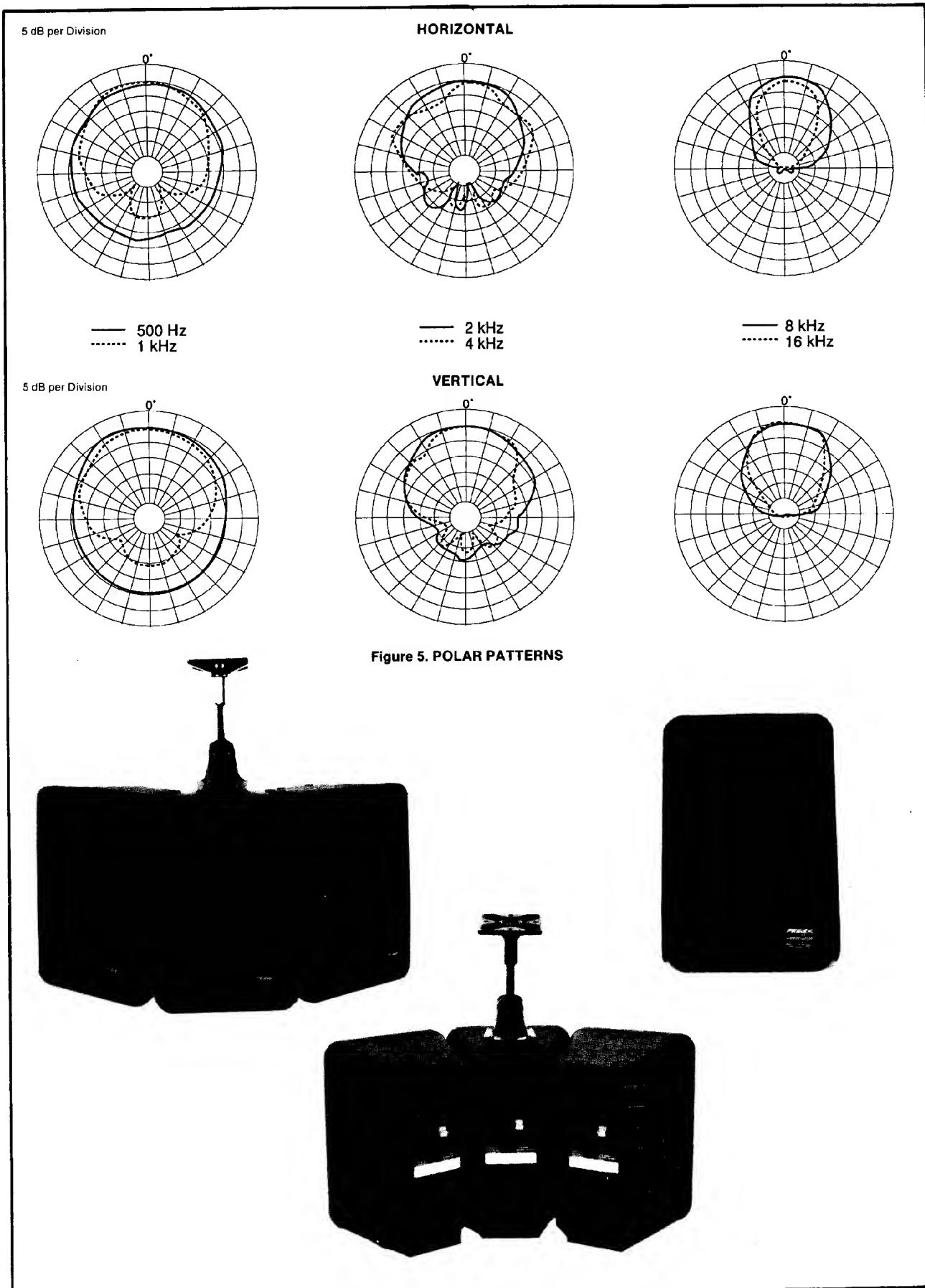


Figure 4. DIRECTIVITY



#### **MOUNTING**

Omnimount 75, interlock to form array. No more than three PR™ 600 units should be suspended from a single Omnimount 75 mounting system. No other suspending hardware is recommended. All associated rigging is the responsibility of others.

#### **ARCHITECTURAL & ENGINEERING SPECIFICATIONS**

The loudspeaker system shall have an operating bandwidth of 100 Hz to 20 kHz. The output level shall be 91 dB when measured at a distance of one meter with an input of one watt. The nominal impedance shall be 8 ohms. The continuous power handling shall be 80 watts, maximum program power of 160 watts, with a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 70 degrees in the horizontal plane and 70 in the vertical plane. The outside dimensions shall be 7½ inches wide by 11½ inches high by 6½ inches deep. The weight shall be 7 lbs. The loudspeaker system shall be a Peavey Architectural Acoustics Division model PR™ 600.

#### **WARRANTY**

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

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Features and specifications are subject to change without notice.

**Peavey Architectural Acoustics Products Are Engineered and Manufactured in Our Facilities in the U.S.A. and England**



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